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cont

means for preventing sulfur compounds from permeating said bobbin and said outer molding and attendantly reducing the formation of sulfur compounds on a surface of said conducting wire, thereby suppressing the reduction in adhesive strength of an electrically-insulating layer to said conducting wire, wire breakage, and short circuiting between said conducting wires,

said preventing means comprising forming said bobbin and said outer molding of an electrically-insulating material resistant to permeation by sulfur compounds.

3. (Twice Amended) An electromotive device used in an automotive transmission, said electromagnetic device comprising:

an outer casing:

a moveable shaft supported by said outer casing:

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a bobbin disposed inside said outer casing so as to be disposed around said moveable shaft on a common axis with said moveable shaft; and

a coil embedded in an outer molding, said coil being constructed by winding a conducting wire onto said bobbin,

an electrically-insulating layer coated on said conducting wire,

a protective layer coated on said electrically-insulating layer, and

means for preventing sulfur compounds from permeating said protective layer and attendantly reducing the formation of sulfur compounds on a surface of said conducting wire,

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thereby suppressing reduction in adhesive strength of the electrically-insulating layer to the
conducting wire, wire breakage, and short circuiting between said conducting wires,
said preventing means comprising forming said protective layer of an electrically-
insulating material resistant to permeation by sulfur compounds.

5. (Twice Amended) An electromotive device used in an automotive transmission,
said electromagnetic device comprising:

an outer casing;

a moveable shaft supported by said outer casing;

a bobbin disposed inside said outer casing so as to be disposed around said
moveable shaft on a common axis with said moveable shaft;

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a coil embedded in an outer molding, said coil being constructed by winding a
conducting wire onto said bobbin,

a high-temperature solder layer coated on said conducting wire, thereby
suppressing reduction in adhesive strength of the electrically-insulating layer to the conducting
wire, wire breakage, and short circuiting between said conducting wires,

said preventing means comprising forming said protective layer of an electrically-
insulating material resistant to permeation by sulfur compounds.


PRELIMINARY AMENDMENT
US Application No. 09/892,845
Attorney Docket No. Q65157

REMARKS

Entry and consideration of this Amendment are respectfully requested.

Respectfully submitted,

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